

# **PIONEER**



STEREO TURNTABLE

# PL-300 PL-300X

KUT,KCT

KIJ

For descriptions and adjustment methods of the D.D.motor and the mechanism employed in this model, refer to the Supplementary Service Manual (ART-467) for the PL-200, PL-255, PL-300, and PL-400 models.

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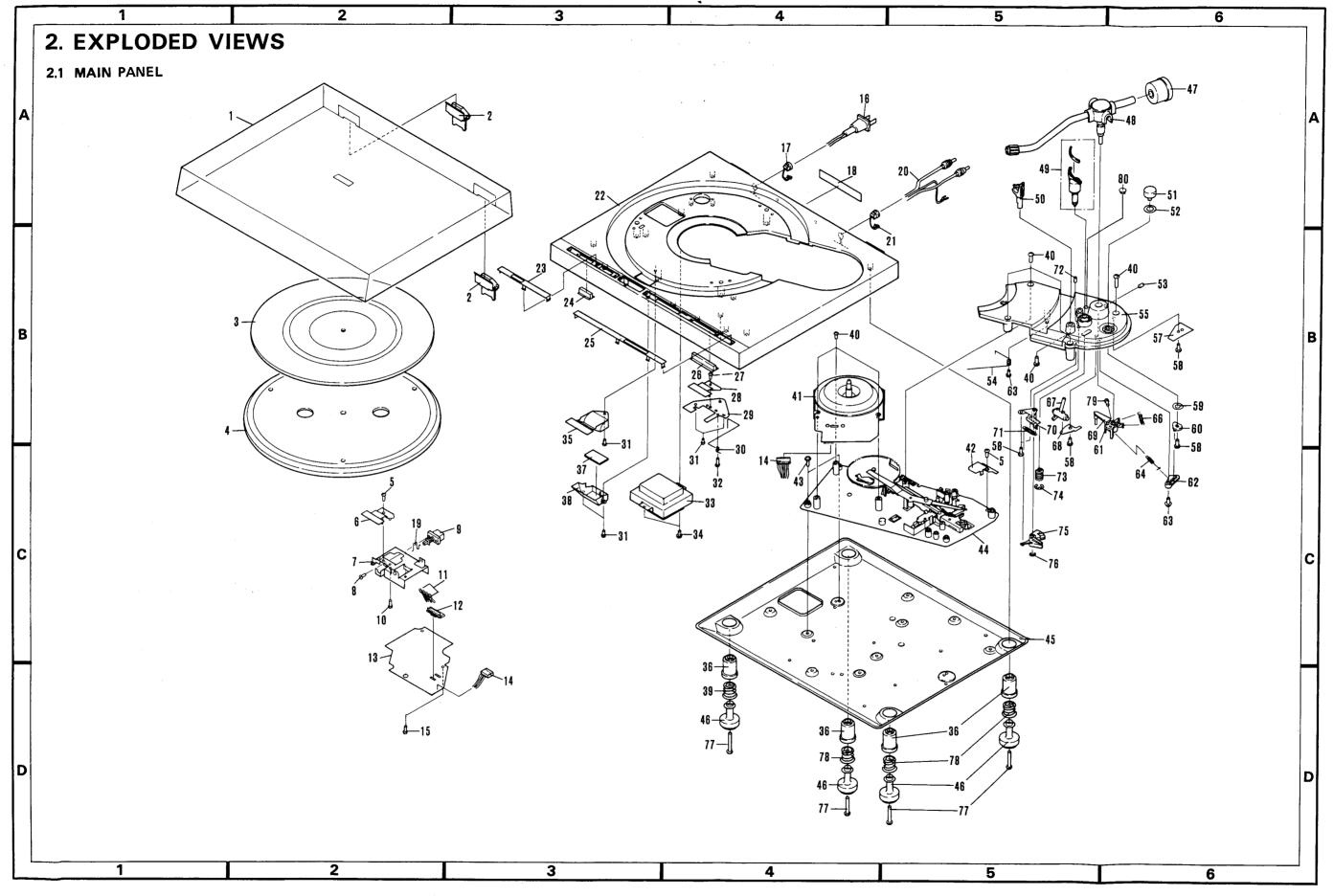
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# 1. SPECIFICATIONS

Motor and Turntable
Drive System Direct-drive
Motor
Turntable Platter310mm diam. aluminum alloy die-cast
Moment of Inertia 180kg-cm <sup>2</sup> (including platter mat)
Speeds
Wow and Flutter Less than 0.025% (WRMS)
Signal-to-Noise Ratio More than 75dB (DIN-B)
(with Pioneer cartridge model PC-135)
Rotational Characteristics
Build-up Time Within 120° rotation at 33-1/3rpm
Speed Deviation Less than 0.002%
Speed Drift Less than 0.00008%/h at 33-1/3rpm
Less than 0.00003%/degree temp, change at 33-1/3rpm
Tonearm
Type Static-balance type, S-shaped pipe arm
Effective Arm Length
Overhang
Usable Cartridge Weight 4g (min.) to 9g (max.)
Subfunctions
Auto return mechanism, Anti-skating force control, Stylus pressure
direct-readout counterweight, Cueing device, Strobe light, Free stop
hinges
Semiconductors

Transistors       3         Diodes       6         Hall Elements       3
Miscellaneous
Power Requirements
Accessories
EP Adapter
Cartridge mounting screws 6
Cartridge mounting nuts
Operating Instructions
PC-135 Specifications (PL-300X KU)
Type Induced magnet type Stylus 0.5 mil diamond (PN-135) Output Voltage 3mV (1kHz, 50mm/s Peak velocity,
Tracking Force
NOTE:  Specifications and design subject to possible modification without notice, due to improvements.



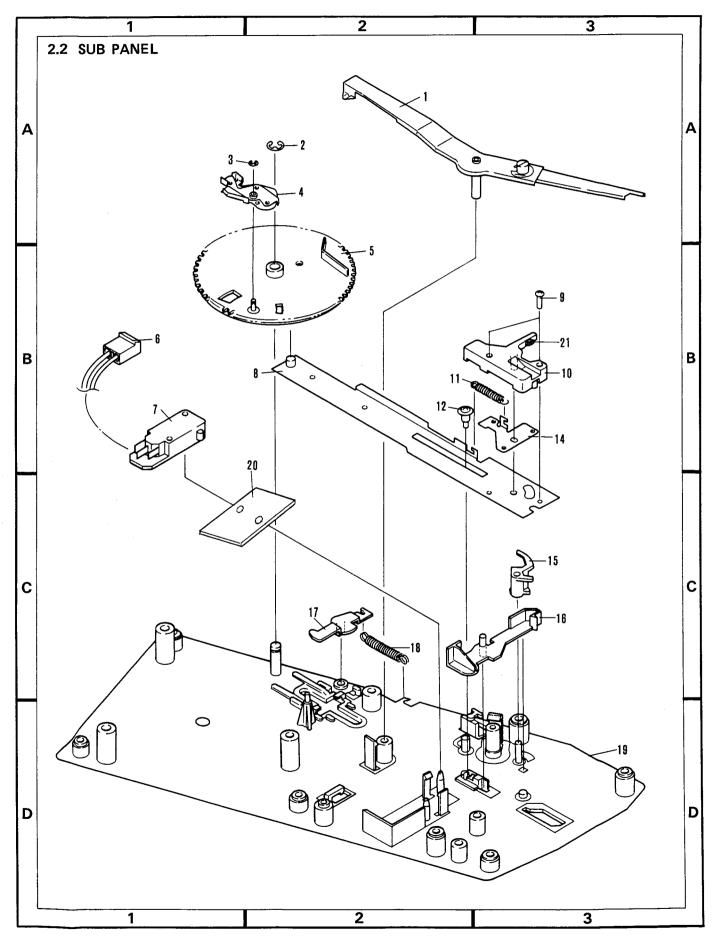
# PL-300/KUT,KCT PL-300X/KU

#### Parts List of Main Panel

#### NOTE:

- Parts without part number cannot be supplied.
  The mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Key No.	Part No.	Description	Key No.	Part No.	Description
<u> </u>			46.	PNX-062	Foot case
1.	PNV-034	Dust cover	47.	PXB-092	Weight assembly
2.	PXB-155	Hinge assembly	48.	PPD-591 (PL-300)	Arm assembly
3.		Rubber mat assembly	40.	PPD-593 (PL-300X)	
	PEB-150 (KCT)		49.	PXB-107	EV sheet assembly
4.	PNR-115	Turntable platter	50.	PXB-094	Arm rest assembly
5.		Deltite screw 3 x 8			A01 1
6.		Button guide C	51.	PAC-045 (PL-300)	AS knob
7.		Angle		PAC-041 (PL-300X)	
8.		Semes A screw 3 x 5	52.	PBF-005	AS washer
9.	PSG-020	Push switch	53.		Hexagon socket headless set screw
	F3G-020	Taptite P screw 3 x 8			4 x 7
10.		Tupello : Deserve :	54,	PXB-152	Cut spring B assembly
44	DDCE046	LED	55.	PNX-053 (PL-300)	Arm base
11.	BR5504S		55.	PNX-085 (PL-300X)	
<sub>^</sub> 12.		LED base	- 50	114X-005 (1 E 000)(1	
<u> 13.</u>		Power supply assembly	56.		OUTPUT terminal
14.	PDE-062	Connector assembly	57.		_
15.		Taptite P screw 3 x 8	58.		Taptite P screw 3 × 8
			59.	PBE-012	Washer
<i>∱</i> ∖ 16.	PDG-017	AC power cord	60.	PNX-054	AS adjusting plate
17.	PEC-058	Strain relief			
	. 20 000	Label	61.	PNX-061	PU plate B
18.	PBH-281	Spring	62.	PNX-055	Lever
19.	·	OUTPUT cord	63.		Washer faced taptite P screw 3 x 10
20.	PDE-064	OO IPO I COID	64.	PBH-236	AS spring
		Descio malinf	65.		
21.	PEC-056	Strain relief	05.		
22.	PNX-114 (PL-300)	Panel	cc	PBH-244	PU plate spring
	PNX-116 (PL-300X)		66.		EV lever unit
23.	PAM-062 (PL-300)	Name plate	67.	PXT-382	EV plate spring A
	PAM-066 (PL-300X)	l in the second of the second	68.	PBK-042	
24.	PAC-043	Push button	69.	PNX-060	PU plate A
25.	PAM-060 (PL-300)	Name plate	70.	PXT-385	EV plate spring B unit
20.	PAM-064 (PL-300X)				
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		71.	PBH-238	EV cam spring
00	DAC 044	Button	72.		Hexagon socket headless set screw
26.		Deltite screw 3 x 8			3 x 12
27.			73.	PBH-237	EV spring
28.		Button guide A	74.		E type washer 7
29.		Button base	75.	PNX-059	EV cam
30.	PXB-151	Cut spring A assembly	,		
		_	76.		E type washer 3
31.		Taptite P screw 3 x 8	70. 77.	PBA-099	Screw
32.	PBA-086	Screw	77. 78.	PBH-241	Foot spring B
<u> </u>	PTT-078 (KUT, KU	) Power transformer		FDH-241	Pan head screw 4 x 8
25	PTT-091 (KCT)		79.		Tall flead scrow 4 A C
3 <b>4</b> .		Taptite P screw 4 x 10		PEB-114 (KUT, KU	\ Bubber bush
		Lens	80.	PEB-114 (NO1, NO	/ Labber basis
35.	FIV051	20.13			
	DED 463	Rubber cushion			
36.		Mirror			
37.					
38.		Lens holder			
<b>39</b> .		Foot spring			
40.	. PBA-108	Screw			
41	. PXM-075	Motor			
42	•	Protector			
		Screw			
43	-	Subpanel assembly			
<b>∆44</b>		Base			
45	) <b>.</b>	D030			

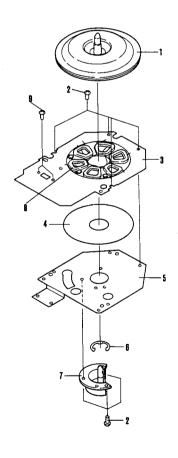


### PL-300/KUT,KCT PL-300X/KU

#### Parts List of Sub Panel

Key No.	Part No.	Description	Key No.	Part No.	Description
1.	PXT-355	Detector lever unit	11.	PBH-224	Spring
2.		E type washer 4	12.	PBA-103	Screw
3.		E type washer 1.5	13.		
4.	PYY-058	Return signal unit	14.	PNC-126	START plate
5.	PNX-036	Cam	15.	PNX-031	Switch plate
<b>∆</b> 6.	PDE-070	Connector assembly	16.	PNX-030	Switch lever
	PSF-006	Microswitch	17.	PNX-035	Plate
<b>∆</b> 7.	F31*-000	Plate	18.	PBH-225	Spring
8.		Pan head screw 2.6 x 10	19.		Sub panel unit
9. 10.	PNX-033	EV cam	20.	PEC-057	Insulator
			21.	PEC-065	EV cam cushion

#### 2.3 D.D. MOTOR



Key No.	Part No.	Description
1.		Rotor unit
2.		Taptite screw 3x5
3.		Control assembly
4.		Insulator
5.		Base unit
6.		EW12
7.		Shaft holder
8.		Coil
9.		Taptite screw 3x12

# 3. SCHEMATIC DIAGRAM AND PARTS LIST

#### NOTE:

- When ordering resistors, first convert resistance values into code form as shown in the following examples.
- Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

 $560\Omega$   $56 \times 10^1$  561  $RD^4PS$  561 J 

  $47k\Omega$   $47 \times 10^3$  473<

- Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors). 5.62k $\Omega$  562 × 10 $^{\circ}$  5621..... RN $^{\circ}$ 4SR 562I F
- The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

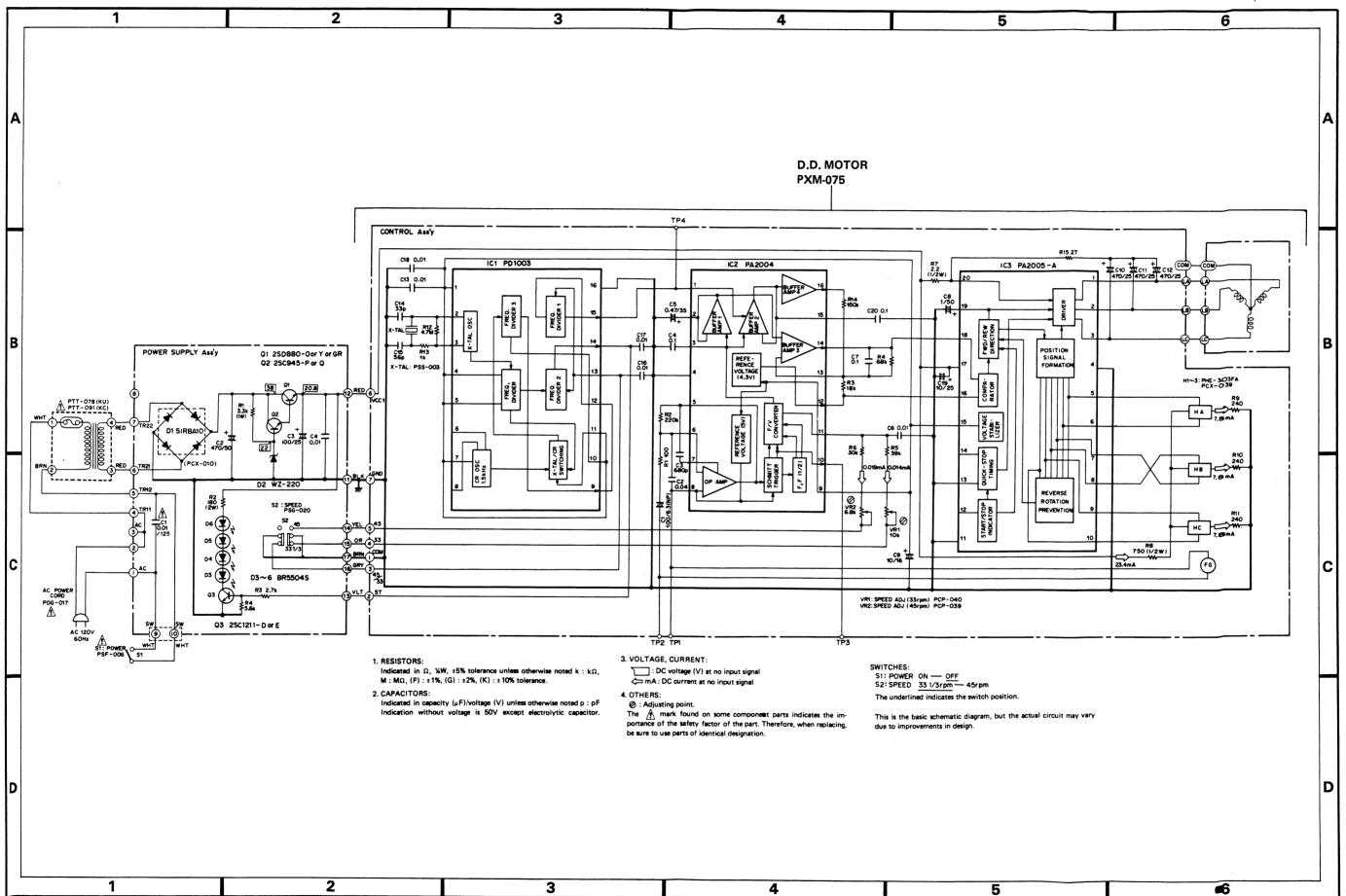
#### Parts List of D.D. motor (PXM-075)

#### Parts List of Power Supply Assembly

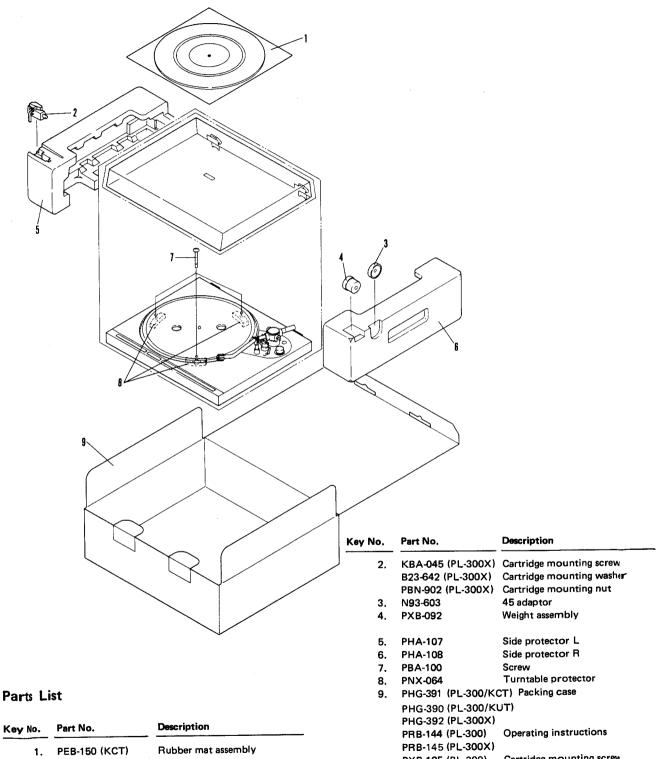
CAPACITORS		Part No.	Symbol	& Description
Part No.	Symbol & Description	2SD880	Q1	
		2SC945	Q2	
CEA 101M 6,3NP	C1 ·	2SC1211	Q3	,
CKDYF 403Z 50	C2	PCX-010	D1	
CKDYB 681K 50	C3	WZ-220	D2	
CQMA 104J 50	C4	BR5504S	D3D6	
CSZA R47K 35	C5			
		CKDYF 103Z 50	C4	
CKDYF 103Z 50	C6, C13, C16-C18	CEA 471M 50L	C2	
CQMA 104K 50	C7, C20	CEA 101M 25L	C3	
CEA 010P 50	C8	<b>∱</b> PCL-036	C1	
CEA 100P16	C9			
CEA 471P 25	C10-C12	RD%PS 272J	R3	
		RS2PF 181J	R2	
CCDCH 330J 50	C14	RS1PF 332J	R1	
CCDCH 560J 50	C15	RD%PS 562J	R4	
CEA 100P 25	C19			
Note:		PSG-020	S2	Speed selector
RESISTORS	resistance value into code form, and	PDE-062		Connector assembly
	then rewrite the part no. as before.	PNX-015		Insulator
Part No.	Symbol & Description	PBH-261		Push button spring
RD%PS 000 J RD%PS 000 J	R1_R6, R9_R15 R7, R8			
PCP-040	VR1 (10k-B)			
PCP-039	VR2 (6.8k-B)			

#### SEMICONDUCTORS AND OTHERS

Part No.	Symbol & I	Description	
PD1003	IC1		
PA2004	IC2		
PA2005A	IC3		
PHE-303FA	H1-H3	Hall element	
PSS-O03	Crystal		



## 5. PACKING



u –			PHG-390 (PL-300/K)	JT)
Cey No.	Part No.	Description	PHG-392 (PL-300X)	
1.	PEB-150 (KCT)	Rubber mat assembly	PRB-145 (PL-300X)	
	PEB-152 (KUT, KU)		PXB-125 (PL-300)	Cartridge mounting screw
2.	PXA-792 (PL-300)	Headshell assembly		assembly
	PXA-791 (PL-300X)		H56-603	Vinyl bag
	PXT-941 (PL-300X)	Cartridge assembly		